

**INTERNATIONAL SEARCH REPORT**

International application No. PCT/CA2004/001421
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**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 C07D 327/04 A61P 25/28 A61K 31/39

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61P A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)

STN™ ESP@CE Canadian Patent Database Delphion

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	OBUSHAK, N.D. ET AL.: "Synthesis of heterocycles based on products of anion arylation of unsaturated compounds. 5*. Reaction of 2-aryl-1,4-benzoquinones with thiourea" <b>CHEMISTRY OF HETEROCYCLIC COMPOUNDS</b> , vol. 37, no. 7, 2001, pages 909-915. see whole document	1, 3, 5 2, 4, 6-13
X Y	WEBB, S.R. ET AL.: "Development and evaluation of immunological approach for the identification of novel acetyl coenzyme-A carboxylase inhibitors: assay optimization and pilot screen results" <b>J. AGRIC. FOOD CHEM.</b> , vol.48, 2000, pages 1219-1228. see page 1224, fig. 7	1, 5 2-4, 6-13
X Y	JP 05339110 A (ASAHI DENKO KOGYO), 21 December 1993 see abstract	1, 5 2-4, 6-13
X Y	JP 60006680 A (SHOWA DENKO KK), 14 January 1985 see abstract	1, 5 2-4, 6-13
X Y	US 4,349,685 (DUNBAR, J.E.), 14 September 1982 see columns 1 & 2, examples 1-5, claims 1-7	1, 5 2-4, 6-13
X Y	US 3,749,736 (DIEKMAN, J.D ET AL.), 31 July 1973 see column 1 lines 15-38, examples 1-5, claims 1-9	1, 5 2-4, 6-13

Further documents are listed in the continuation of Box C. [X]

Patent family members are listed in annex. [X]

- \* "A" Special categories of cited documents :
- "T" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international-type search  
16 September 2004 (16-09-2004)

Date of mailing of the international-type search report  
03 December 2004 (03-12-2004)

Name and mailing address of the ISA/  
Commissioner of Patents  
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## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2004/001421

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	TRAXLER, J.T.: "A novel synthesis of 2 <i>H</i> -1,3-benzoxathiol-2-ones" J. OF ORG. CHEM., vol. 44, no. 26, 1979, pages 4971-4973. see whole document	1, 5 2-4, 6-13
X Y	US 2,886,488 (BERG, A. ET AL.), 12 May 1959 see column 2 lines 1-35	1, 5 2-4, 6-13
X Y	US 2,547,843 (VON GLAHN, W.H. ET AL.), 3 April 1951 see whole document	1, 5 2-4, 6-13
X Y	FIELDER, H. ET AL.: "Preparation of several 1,3-benzoxathioles; their bacteriostatic and fungistatic properties" Pharmazie 1966, 21(12), 765-8 (Ger.) Columbus, Ohio: CHEMICAL ABSTRACTS, vol. 67, 1967, abstract No. 64237g see whole document	1 2-13
X Y	FIELDER, H.: "Preparation of hydroxy-2-oxo and 2-thiono-1,3-benzoxathioles" Ber. 1962, 95, 1771-85 (Ger.) Columbus, Ohio: CHEMICAL ABSTRACTS, vol. 57, 1962, abstract No. 9828g see whole document	1 2-13
X Y	US 2,332,418 (WERNER ET AL.), 19 October 1943 whole document	1 2-13

**INTERNATIONAL SEARCH REPORT**International application No.  
PCT/CA2004/001421**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons :

- 1  Claims Nos. : 22-26 because they relate to subject matter not required to be searched by this Authority; namely:  
  
Claims 22-26 relate to methods of medical treatment (Rule 39.1(iv), PCT)  
Although claims 22-26 are directed to methods of medical treatment of the human/animal body, the search has been carried out based on the alleged effects of the pharmaceutical compositions.
- 2  Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically :
- 3  Claims Nos. : because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule

**Box III Observation where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows :

- 1  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
- 2  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
- 3  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos. :
- 4  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos. :

**Remark on Protest**       The additional search fees were accompanied by the applicant's protest.  
                              No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
PCT/CA2004/001421

<u>Patent Document</u>	<u>Publication Date</u>	<u>Patent Family Members</u>
JP 5339110 A	21-12-1993	None
JP 60006680 A	14-01-1985	None
US 4,349,685	14-09-1982	None
US 3,749,736	31-07-1973	None
US 2,886,488	12-05-1959	None
US 2,547,843	03-04-1951	None
US 2,332,418	19-10-1943	None